

SEQUENCE LISTING

<110> Sato, Aaron K.
Edge, Albert

<120> SERUM PROTEIN-ASSOCIATED TARGET-SPECIFIC
LIGANDS AND IDENTIFICATION METHOD THEREFOR

<130> 10280-058001

<150> US 60/390,657
<151> 2002-06-21

<160> 11

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 1
Ala Gly Pro Thr Trp Cys Glu Asp Asp Trp Tyr Tyr Cys Trp Leu Phe
1 5 10 15
Gly Thr Gly Gly Lys
20

<210> 2
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 2
Gly Asp Ser Arg Val Cys Trp Glu Asp Ser Trp Gly Gly Glu Val Cys
1 5 10 15
Phe Arg Tyr Asp Pro Gly Gly Lys
20 25

<210> 3
<211> 585
<212> PRT
<213> Homo sapiens

<400> 3
Asp Ala His Lys Ser Glu Val Ala His Arg Phe Lys Asp Leu Gly Glu
1 5 10 15
Glu Asn Phe Lys Ala Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln
20 25 30

Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu
 35 40 45
 Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys
 50 55 60
 Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu
 65 70 75 80
 Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro
 85 90 95
 Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu
 100 105 110
 Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His
 115 120 125
 Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg
 130 135 140
 Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg
 145 150 155 160
 Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala
 165 170 175
 Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser
 180 185 190
 Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu
 195 200 205
 Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro
 210 215 220
 Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys
 225 230 235 240
 Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp
 245 250 255
 Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser
 260 265 270
 Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His
 275 280 285
 Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser
 290 295 300
 Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala
 305 310 315 320
 Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg
 325 330 335
 Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr
 340 345 350
 Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu
 355 360 365
 Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro
 370 375 380
 Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu
 385 390 395 400
 Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro
 405 410 415
 Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys
 420 425 430
 Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys
 435 440 445
 Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His
 450 455 460
 Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser
 465 470 475 480
 Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr

	485	490	495
Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp	500	505	510
Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala	515	520	525
Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu	530	535	540
Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys	545	550	555
Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val	565	570	575
Ala Ala Ser Gln Ala Ala Leu Gly Leu	580	585	

<210> 4
 <211> 608
 <212> PRT
 <213> Mus musculus

<400> 4				
Met Lys Trp Val Thr Phe Leu Leu Leu Leu Phe Val Ser Gly Ser Ala	1	5	10	15
Phe Ser Arg Gly Val Phe Arg Arg Glu Ala His Lys Ser Glu Ile Ala	20	25	30	
His Arg Tyr Asn Asp Leu Gly Glu Gln His Phe Lys Gly Leu Val Leu	35	40	45	
Ile Ala Phe Ser Gln Tyr Leu Gln Lys Cys Ser Tyr Asp Glu His Ala	50	55	60	
Lys Leu Val Gln Glu Val Thr Asp Phe Ala Lys Thr Cys Val Ala Asp	65	70	75	80
Glu Ser Ala Ala Asn Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp	85	90	95	
Lys Leu Cys Ala Ile Pro Asn Leu Arg Glu Asn Tyr Gly Glu Leu Ala	100	105	110	
Asp Cys Cys Thr Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln	115	120	125	
His Lys Asp Asp Asn Pro Ser Leu Pro Pro Phe Glu Arg Pro Glu Ala	130	135	140	
Glu Ala Met Cys Thr Ser Phe Lys Glu Asn Pro Thr Thr Phe Met Gly	145	150	155	160
His Tyr Leu His Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro	165	170	175	
Glu Leu Leu Tyr Tyr Ala Glu Gln Tyr Asn Glu Ile Leu Thr Gln Cys	180	185	190	
Cys Ala Glu Ala Asp Lys Glu Ser Cys Leu Thr Pro Lys Leu Asp Gly	195	200	205	
Val Lys Glu Lys Ala Leu Val Ser Ser Val Arg Gln Arg Met Lys Cys	210	215	220	
Ser Ser Met Gln Lys Phe Gly Glu Arg Ala Phe Lys Ala Trp Ala Val	225	230	235	240
Ala Arg Leu Ser Gln Thr Phe Pro Asn Ala Asp Phe Ala Glu Ile Thr	245	250	255	
Lys Leu Ala Thr Asp Leu Thr Lys Val Asn Lys Glu Cys Cys His Gly	260	265	270	
Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Glu Leu Ala Lys Tyr Met	275	280	285	
Cys Glu Asn Gln Ala Thr Ile Ser Ser Lys Leu Gln Thr Cys Cys Asp				

290	295	300
Lys Pro Leu Leu Lys	Lys Ala His Cys	Leu Ser Glu Val Glu His Asp
305	310	315
Thr Met Pro Ala Asp	Leu Pro Ala Ile	Ala Ala Asp Phe Val Glu Asp
325	330	335
Gln Glu Val Cys Lys	Asn Tyr Ala Glu Ala Lys	Asp Val Phe Leu Gly
340	345	350
Thr Phe Leu Tyr Glu	Tyr Ser Arg Arg His	Pro Asp Tyr Ser Val Ser
355	360	365
Leu Leu Leu Arg Leu	Ala Lys Lys Tyr Glu Ala	Thr Leu Glu Lys Cys
370	375	380
Cys Ala Glu Ala Asn	Pro Pro Ala Cys Tyr	Gly Thr Val Leu Ala Glu
385	390	395
Phe Gln Pro Leu Val	Glu Glu Pro Lys Asn	Leu Val Lys Thr Asn Cys
405	410	415
Asp Leu Tyr Glu Lys	Leu Gly Glu Tyr	Gly Phe Gln Asn Ala Ile Leu
420	425	430
Val Arg Tyr Thr Gln	Lys Ala Pro Gln Val Ser	Thr Pro Thr Leu Val
435	440	445
Glu Ala Ala Arg Asn	Leu Gly Arg Val	Gly Thr Lys Cys Cys Thr Leu
450	455	460
Pro Glu Asp Gln Arg	Leu Pro Cys Val Glu Asp	Tyr Leu Ser Ala Ile
465	470	475
Leu Asn Arg Val Cys	Leu Leu His Glu Lys	Thr Pro Val Ser Glu His
485	490	495
Val Thr Lys Cys	Cys Ser Gly Ser	Leu Val Glu Arg Arg Pro Cys Phe
500	505	510
Ser Ala Leu Thr Val	Asp Glu Thr	Tyr Val Pro Lys Glu Phe Lys Ala
515	520	525
Glu Thr Phe Thr Phe	His Ser Asp Ile	Cys Thr Leu Pro Glu Lys Glu
530	535	540
Lys Gln Ile Lys Lys	Gln Thr Ala Leu Ala	Glu Leu Val Lys His Lys
545	550	555
Pro Lys Ala Thr Ala	Glu Gln Leu Lys	Thr Val Met Asp Asp Phe Ala
565	570	575
Gln Phe Leu Asp Thr	Cys Cys Lys Ala Ala Asp	Lys Asp Thr Cys Phe
580	585	590
Ser Thr Glu Gly Pro Asn	Leu Val Thr Arg	Cys Lys Asp Ala Leu Ala
595	600	605

<210> 5

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> template sequence

<221> VARIANT

<222> 1-3, 5-8, 10-12

<223> Xaa = any common alfa-amino acids, except
cysteine (Cys)

<400> 5

Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 6
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> template sequence

<221> VARIANT
<222> 1-3, 5-9, 11-13
<223> Xaa = any common alfa-amino acids, except cysteine (Cys)

<400> 6
Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 7
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> template sequence

<221> VARIANT
<222> 1-3, 5-10, 12-14
<223> Xaa = any amino acid except cysteine (Cys)

<400> 7
Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 8
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> template sequence

<221> VARIANT
<222> 1-3, 5-11, 13-15
<223> Xaa = any amino acid except cysteine (Cys)

<400> 8
Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
1 5 10 15

<210> 9
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> template sequence

